Scientists, Engineers, and Technicians in Nonmanufacturing Industries

1993

Detailed Statistical Tables

Richard E. Morrison, Project officer

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 96-332

Suggested Citation

National Science Foundation, *Scientists, Engineers, and Technicians in Nonmanufacturing Industries*, NSF 96-332 (Arlington, VA, 1996).

Availability of Publications

Single copies are available free of charge from the Division of Science Resources Studies, National Science Foundation, Arlington, VA 22230. SRS data are also available through the World Wide Web (http://www.nsf.gov/sbe/srs/stats.htm). If you are a user of electronic mail and have access to Internet, you may order publications electronically. Send requests to pubs@nsf.gov. In your request include the NSF publication number and title, your name, and a complete mailing address. Printed publications may also be ordered by fax (703-644-4278). Please allow 3 weeks for delivery.

Telephonic Device for the Deaf (703) 306-0090

ACKNOWLEDGMENTS

The development of *Scientists, Engineers, and Technicians in Nonmanufacturing Industries:1993* was managed by Richard E. Morrison, Senior Economist, National Science Foundation, Division of Science Resources Studies (SRS), Science and Engineering Personnel Program (PER), under the overall direction of Carlos Kruytbosch, Program Director, PER, and Jeanne E. Griffith, Director, SRS. The text was edited by Anne Houghton, SRS Publications Manager, and Julia Harriston, Assistant

Publications Manager. Mathematica Policy Research, Inc. (MPR), under NSF contract number SRS-88-21853, prepared the tables from data collected, assembled, and tabulated by the Bureau of Labor Statistics, U.S. Department of Labor. MPR staff members who worked on this project were Susan Holland, Myles Lane, Karen Pence, and Elyse Forkosh. BLS staff who contributed to this project included Michael P. McElroy and Lawrence Jeff Johnson.

CONTENTS

Section	Page
General Notes	xi
Technical Notes	
General	
Scope of Survey	
Method of Collection	
Sampling Procedures	
Response	
Occupational Estimates	
Variance Estimates	
Reliability of Estimates	
Quality Control Measures	
List of Tables	7
Detailed Statistical Tables	

GENERAL NOTES

In this report, estimates are presented of the total number of positions filled by scientists, engineers, and technicians employed in nonmanufacturing industries in 1993. The estimates were developed from the Occupational Employment Statistics (OES) Survey, a Federal/state program under which national and state estimates are generated of employment by industry for nonfarm wage and salary workers. The Bureau of Labor Statistics (BLS) of the U.S. Department of Labor has primary responsibility for developing OES survey procedures and for providing states with technical guidance and assistance with survey problems. State Employment Security Agencies implement the survey at the state level and prepare current and projected employment statistics for these labor markets. Some states also prepare substate estimates.

The Division of Science Resources Studies of the National Science Foundation has enhanced the BLS effort since 1977 by financing the collection of detailed estimates on the types of scientific and technical jobs filled by industry. Analysis of this information yields insight into the dynamics of the labor market.

Industries identified in the tables of this report are from the "Numerical List of Short Titles" in the *Standard Industrial Classification (SIC) Manual*, revised edition. The numbers of scientists, engineers, and technicians for a few industries at the 2-digit SIC

level (tables A-2, A-3, A-4, A-7, A-8, and A-9) in this 1993 edition, as well as in the 1990 edition, differ from those in the prior (1987) report on nonmanufacturing industries, because the industries were recoded between the 1986 and 1989 surveys. Starting with the 1990 edition, greater noncomparability occurred at the 3-digit level of detail (tables A-1, A-5, A-6, and A-10) because of more extensive recoding. However, the numerous industry title changes did not affect the comparability of the 1990 and 1987 occupational estimates for total nonmanufacturing.

For the reasons outlined above, estimates in the tables of this 1993 report and the 1990 report should be compared with those for 1987 (and earlier years) only after consulting the 1987 SIC revisions to determine industry comparability.

Requests for previously published data and additional information should be directed to

Richard E. Morrison Senior Economist National Science Foundation 4201 Wilson Boulevard, Suite 965 Arlington, VA 22230

Tel: (703) 306-1776 ext. 6904

Fax: (703) 306-0510 Internet: rmorriso@nsf.gov